



TROPICAL CYCLONE BULLETIN NO. 21
Severe Tropical Storm PAENG (NALGAE)

Issued at 11:00 PM, 29 October 2022

Valid for broadcast until the next bulletin at 2:00 AM tomorrow

“PAENG” HAS PASSED OVER LAGUNA DE BAY AND THE METRO MANILA-RIZAL-BULACAN AREA

Location of Center (10:00 PM):

The center of Severe Tropical Storm “PAENG” was estimated based on all available data including those from Tagaytay and Subic Doppler Weather Radars **in the vicinity of Baliuag, Bulacan (15.0°N, 120.9°E)**

Intensity:

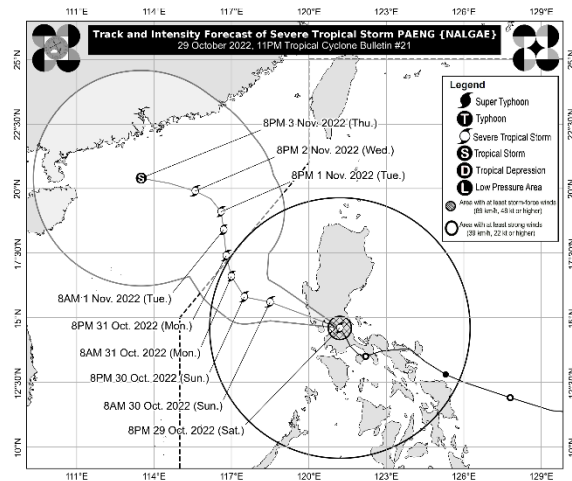
Maximum sustained winds of **95 km/h** near the center, gustiness of up to **160 km/h**, and central pressure of **985 hPa**

Present Movement:

North northwestward at 15 km/h

Extent of Tropical Cyclone Winds:

Strong to storm-force winds extend outwards up to **560 km** from the center



TRACK AND INTENSITY FORECAST

Date and Time	Center Position			Intensity		Movement dir. and speed (km/h)
	Lat. (°N)	Lon. (°E)	Location	MSW (km/h)	Cat.	
12-Hour Forecast 8:00 AM 30 October 2022	15.6	118.5	160 km West of Iba, Zambales	95	STS	WNW 25
24-Hour Forecast 8:00 PM 30 October 2022	15.8	117.5	270 km West Northwest of Iba, Zambales	100	STS	WNW 10
36-Hour Forecast 8:00 AM 31 October 2022	16.6	117.0	365 km West of Dagupan City, Pangasinan	100	STS	NNW 10
48-Hour Forecast 8:00 PM 31 October 2022	17.4	116.8	390 km West of Sinait, Ilocos Sur (Outside the PAR)	110	STS	NNW 10
60-Hour Forecast 8:00 AM 01 November 2022	18.4	116.7	405 km West of Laoag City, Ilocos Norte (Outside the PAR)	110	STS	N 10
72-Hour Forecast 8:00 PM 01 November 2022	19.1	116.6	510 km West of Calayan, Cagayan (Outside the PAR)	100	STS	N slowly
96-Hour Forecast 8:00 PM 02 November 2022	19.9	115.6	670 km West of Basco, Batanes (Outside the PAR)	95	STS	NW slowly
120-Hour Forecast 8:00 PM 03 November 2022	20.4	113.5	870 km West of Extreme Northern Luzon (Outside the PAR)	85	TS	WNW 10



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TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT			
TCWS No.	Luzon	Visayas	Mindanao
3 Wind threat: Storm-force winds	The northern portion of Metro Manila (City of Manila, City of Valenzuela, City of Malabon, City of Navotas, Caloocan City, Quezon City), Bataan, the southern portion of Zambales (San Marcelino, Subic, Olongapo City, Castillejos, San Antonio, San Narciso, San Felipe, Cabangan, Botolan, Palauig, Iba), Pampanga, Bulacan, and the southern portion of Tarlac (Concepcion, Capas, San Jose, Bamban)	-	-
	Warning lead time: 18 hours Range of wind speeds: 89 to 117 km/h (Beaufort 10 to 11) Potential impacts of winds: Moderate to significant threat to life and property		
2 Wind threat: Gale-force winds	Pangasinan, the southern portion of Aurora (San Luis, Baler, Dingalan, Maria Aurora), the rest of Tarlac, Nueva Ecija, the rest of Zambales, Laguna, Batangas, the northern and central portions of Quezon (Alabat, Perez, Plaridel, Atimonan, Unisan, Agdangan, Padre Burgos, Pagbilao, Sariaya, Lucena City, San Antonio, Tiaong, Candelaria, Dolores, City of Tayabas, Lucban, Sampaloc, Mauban, General Nakar, Infanta, Real) including Pollilo Islands, Rizal, Cavite, the rest of Metro Manila, Cavite, the northern portion of Oriental Mindoro (Victoria, Naujan, San Teodoro, Baco, Puerto Galera, City of Calapan), and the northern portion of Occidental Mindoro (Santa Cruz, Abra de Ilog, Mamburao, Paluan) including Lubang Islands	-	-
	Warning lead time: 24 hours Range of wind speeds: 62 to 88 km/h (Beaufort 8 to 9) Potential impacts of winds: Minor to moderate threat to life and property		
1 Wind threat: Strong winds	La Union, Kalinga, Abra, Benguet, Ifugao, Ilocos Sur, Mountain Province, Nueva Vizcaya, Quirino, Isabela, the rest of Aurora, the rest of Quezon, Catanduanes, Camarines Sur, Camarines Norte, Albay, Sorsogon, the western portion of Masbate (Milagros, Mobo, Uson, City of Masbate, Aroroy, Balud, Mandaon, Baleno) including Burias and Ticao Islands, the rest of Occidental Mindoro, the rest of Oriental Mindoro, Palawan (El Nido, Taytay) including Calamian Islands, Cuyo Islands, Romblon, and Marinduque	Capiz, Aklan, and the northern portion of Antique (Barbaza, Culasi, Tibiao, Sebaste, Libertad, Bugasong, Laua-An, Pandan) including Caluya Islands	-
	Warning lead time: 36 hours Range of wind speeds: 39 to 61 km/h (Beaufort 6 to 7) Potential impacts of winds: Minimal to minor threat to life and property		
Tropical Cyclone Wind Signals in other areas are hereby lifted			



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HAZARDS AFFECTING LAND AREAS

Heavy Rainfall

- *Through tomorrow morning:* Heavy to intense with at times torrential rains likely Metro Manila, Zambales, Bataan, Tarlac, Pampanga, Bulacan, Rizal, Laguna, Cavite, Batangas, and the northern portion of mainland Quezon. Moderate to heavy with at times intense rains likely over mainland Cagayan Valley, Cordillera Administrative Region, Mindoro Provinces, the central portion of Quezon including Polillo Islands, and the rest of Central Luzon. Light to moderate with at times heavy rains possible over Ilocos Region, Bicol Region, Western Visayas, and the rest of MIMAROPA and Quezon.
- *Rest of tomorrow:* Moderate to heavy with at times intense rains possible over Metro Manila, mainland Cagayan Valley, Cordillera Administrative Region, Central Luzon, Rizal, Laguna, Cavite, Batangas, Mindoro Provinces, and the northern portion of mainland Quezon. Light to moderate with at times heavy rains possible over Ilocos Region, Bicol Region, Western Visayas, and the rest of MIMAROPA, and Quezon including Polillo Islands.
- Under these conditions, **widespread flooding and rain-induced landslides are expected**, especially in areas that are highly or very highly susceptible to these hazard as identified in hazard maps and in localities with significant antecedent rainfall.

Severe Winds

- Winds of at most storm-force strength may occur within any of the areas where Wind Signal No. 3 is hoisted, while winds reaching gale-force strength are possible within any of the areas where Wind Signal No. 2 is in effect. Areas under Wind Signal No. 1 may experience strong winds (strong breeze to near gale strength) throughout the passage of the tropical cyclone.
- The outer circulation of PAENG and the surge of the Northeast Monsoon will also bring gusty condition reaching strong to gale-force strength over the rest of Luzon and Western Visayas. These conditions are especially likely in coastal and upland/mountainous areas.

Coastal Inundation

There is minimal to moderate risk of storm surge of up to 2.0 m in height which may cause **inundation or flooding in the low-lying and exposed coastal areas** of Bataan (facing Manila Bay), Pampanga, Bulacan, Metro Manila, Cavite, and northern mainland Quezon. For more information refer to Storm Surge Warning #7 issued at 8:00 PM today.

HAZARDS AFFECTING COASTAL WATERS

Under the influence of the surge of the Northeast Monsoon and Severe Tropical Storm PAENG, a **marine gale warning** remains in effect over the seaboards of Luzon and Visayas and the eastern seaboard of Mindanao. For more information, refer to Gale Warning #13 issued at 5:00 PM today.

TRACK AND INTENSITY OUTLOOK

- Severe Tropical Storm PAENG is forecast to track generally northwestward through tomorrow evening and will likely exit the Luzon landmass within 6 to 12 hours. Afterwards, PAENG will track north northwestward over the West Philippine Sea until Tuesday. On the track forecast, this tropical cyclone may exit the Philippine Area of Responsibility on Monday.
- PAENG may maintain its strength from the remainder of its traverse of the Luzon landmass, although the possibility of slight weakening is not ruled out within the next 6 hours. Further re-intensification is likely once PAENG moves over the West Philippine Sea.

Considering these developments, the public and disaster risk reduction and management offices concerned are advised to take all necessary measures to protect life and property. Persons living in areas identified to be highly or very highly susceptible to these hazards are advised to follow evacuation and other instructions from local officials. **For heavy rainfall warnings, thunderstorm/rainfall advisories, and other severe weather information specific to your area, please monitor products issued by your local PAGASA Regional Services Division.**

The next tropical cyclone bulletin will be issued at 2:00 AM tomorrow.

DOST-PAGASA

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